

### **Abstract**

#### **White-emitting LED with defined color temperature**

LED with a low color temperature up to 3500 K, comprising a blue-emitting LED with two phosphors in front of it, a first phosphor from the class of the oxynitridosilicates, having a cation M, which is doped with divalent Europium, and has the empirical formula  $M_{(1-c)}Si_2O_2N_2:D_c$ , with M = Sr, or M =  $Sr_{(1-x-y)}Ba_yCa_x$  with  $x+y < 0.5$  being used, the oxynitridosilicate completely or predominantly comprising the high-temperature-stable modification HT, and a second phosphor from the class of the nitridosilicates of formula  $(Ca,Sr)_2Si_5N_8:Eu$ .

Fig. 1